



IN THE DRAWINGS

Corrected Figures 1-9 are submitted herewith.

IN THE CLAIMS

1. (Currently Amended) A method of data transmission on demand to ~~an unlimited number a plurality~~ of clients without acknowledgment ~~on the basis of constant data availability~~, the method comprising the steps of:
 - ~~providing a data transmission system comprising at least a server system that contains the entire information available to the clients;~~
 - ~~at least one router on the side of said server capable of receiving data from said server system;~~
 - ~~at least one router on the side of said clients;~~
 - ~~a wide area network; and~~
 - ~~a group of clients subscribed to said data transmission system and capable of receiving at least a portion of said entire information selected by said client from said server system via said one router on the side of said server, one router on the side of said clients, and said wide area network;~~
 - dividing information content stored on a server into a plurality of data portions;
 - ~~constantly transmitting said entire information~~ the plurality of data portions to ~~said~~ at least one router on the a server side of said ~~server system via said wide area network~~ for constant availability of ~~said entire information to any number of said~~ the information content to the plurality of clients;
 - upon receiving a content request at one of a plurality of channels at the at least one router from one of the plurality of clients,
 - sending a random portion from the plurality of data portions to the one of the plurality of clients, the random portion comprising data

indicating whether the random portion is part of the requested content;
and

if the random portion is part of the requested content, sending
the rest of the requested content to the one of the plurality of clients via
the one of the plurality of channels.

2. (Currently Amended) The method of Claim 1, wherein ~~said step of~~ the plurality of data portions are constantly transmitting said entire information to said at least one router on the side of said server system is carried out transmitted simultaneously via parallel channels.
3. (Original) The method of Claim 2, wherein said parallel channels are combined into groups of channels having the same data transmission speed in each group.
4. (Currently Amended) The method of Claim 3, wherein ~~said entire information~~ the plurality of data portions is transmitted simultaneously via all said groups.
5. (Currently Amended) The method of Claim 1, ~~further comprising the following steps on the side of said server system~~ wherein dividing the information content comprises:
 - dividing said entire the information content into data segments;
 - dividing each one of said data segments into information data units, each of said information data units comprising a rectangular matrix of lines and columns;
 - assigning numbers to said lines and columns;
 - determining a check information for each one of said information data units by manipulating using parity check data in said corresponding lines and columns;
 - collecting said check information from all said information data units to form control data units unit;
 - reorganizing said information data units by collecting lines to which the same numbers are assigned into reorganized data units;
 - assigning identification information to each of said reorganized data units and said control data units; and

forming information protocol data units and control protocol data units by combining said identification information with respective reorganized data units and said control data units.

6. Canceled.

7. Canceled.

8. Canceled.

9. Canceled.

10. (Currently Amended) The method of Claim [[6]] 5, further comprising the steps of:
wherein

~~receiving at least one request from at least one of said clients by said at least one router for obtaining a portion of said entire information selected by said at least one client from said at least one router where said entire information is always available due to said step of constantly transmitting;~~

~~—starting transmitting said entire~~ the rest of the requested content is transmitted to the one of the plurality of clients ~~information from said at least one router to all said groups of channels and then to said at least one client at least via one channel of said group having the speed of transmission corresponding to that at the client's side~~ one of the plurality of clients.

11. (Currently Amended) The method of Claim 10, further comprising ~~the step of~~ the one of the plurality of clients checking completeness of the ~~information during receiving said information by said at least one client~~ transmitted content by:

collecting said information protocol data units and said control protocol data units relating to said portion of said ~~entire information~~ requested content selected by ~~said at least one client~~ the one of the plurality of clients;

extracting said reorganized information data units from said information protocol data units;

extracting said control data units from said control protocol data units;
checking completeness of said information data units relating to each said data segment in said portion of said ~~entire information~~ requested content selected by said ~~at least one client~~ the one of the plurality of clients; and
converting said reorganized data units to the form preceding ~~said step of the~~ reorganizing.

12. (Currently Amended) The method of Claim 11, further comprising ~~the steps of~~:

assembling each of said data segments contained in said portion of said ~~entire information~~ requested content selected by said ~~at least one client~~ the one of the plurality of clients from said information data units related to said data segments, if said information data units are present; and

assembling each of said data segments contained in said portion of said ~~entire information~~ requested content selected by said ~~at least one client~~ the one of the plurality of clients from said information data units related to said data segments.

13. (Currently Amended) The method of Claim 12, further comprising ~~the steps of~~:

interrupting ~~said step of the~~ receiving, if ~~said portion of said entire information~~ all portions of the requested content are selected by said at least one client is received.

14. Canceled.

15. (Currently Amended) The method of Claim 11, further comprising ~~the steps of~~:

restoring said data lost during ~~said step of the~~ receiving by means of said control data unit and those of said information data units which have been received by ~~said at least one client~~ the one of the plurality of clients and relates to the same data segment.

16. Canceled.

17. Canceled.
18. Canceled.
19. Canceled.
20. Canceled.
21. Canceled.
22. Canceled.
23. Canceled.
24. Canceled.
25. Canceled.
26. Canceled.
27. Canceled.

Please add new claims 28 and 29 as follows:

28. (New) A system for data transmission on demand to a plurality of clients without acknowledgment, the system comprising:
 - a data storage device to store information content in a plurality of files;
 - at least one server to divide the information content into a plurality of data portions and to distribute the plurality of data portions to at least one data transmission unit;
 - a plurality of send boxes in the at least one data transmission unit to constantly transmit the plurality of data portions to at least one router; and

the at least one router to cause the information content to be constantly available to the plurality of clients at a plurality of channels, to receive a content request at one of the plurality of channels, to send a random portion from the plurality of data portions to the one of the plurality of clients, the random portion comprising data indicating whether the random portion is part of the requested content, and to send the rest of the requested content to the one of the plurality of clients via the one of the plurality of channels if the random portion is part of the requested content.

29. (New) A machine readable medium having stored thereon executable code which causes a machine to perform a method of data transmission on demand to a plurality of clients without acknowledgment, the method comprising:

dividing information content stored on a server into a plurality of data portions;

constantly transmitting the plurality of data portions to at least one router on a server side for constant availability of the information content to the plurality of clients;

upon receiving a content request at one of a plurality of channels at the at least one router from one of the plurality of clients, sending a random portion from the plurality of data portions to the one of the plurality of clients, the random portion comprising data indicating whether the random portion is part of the requested content; and

if the random portion is part of the requested content, sending the rest of the requested content to the one of the plurality of clients via the one of the plurality of channels.